

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
21 April 2005 (21.04.2005)

PCT

(10) International Publication Number
WO 2005/034970 A1

(51) International Patent Classification⁷: **A61K 35/74**,
A61P 13/00, 15/14, 17/02

(74) Agents: **GATES, Marie, Christina, Esther et al.**;
Tomkins & Co., 5 Dartmouth Road, Dublin 6 (IE).

(21) International Application Number:
PCT/IE2004/000143

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date: 15 October 2004 (15.10.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2003/0773 17 October 2003 (17.10.2003) IE

(71) Applicants (*for all designated States except US*):
TEAGASC THE AGRICULTURE AND FOOD DEVELOPMENT AUTHORITY [IE/IE]; 19 Sandymount Avenue, Dublin 4 (IE). **UNIVERSITY COLLEGE CORK [IE/IE]**; College Road, Cork (IE).

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **ROSS, Paul [IE/IE]**;
3 Capwell Road, Cork (IE). **HALLAHAN, Stephen [IE/IE]**; c/o Cross Vetpharm Group Limited, Broomhill Road, Tallaght, Dublin 24 (IE).

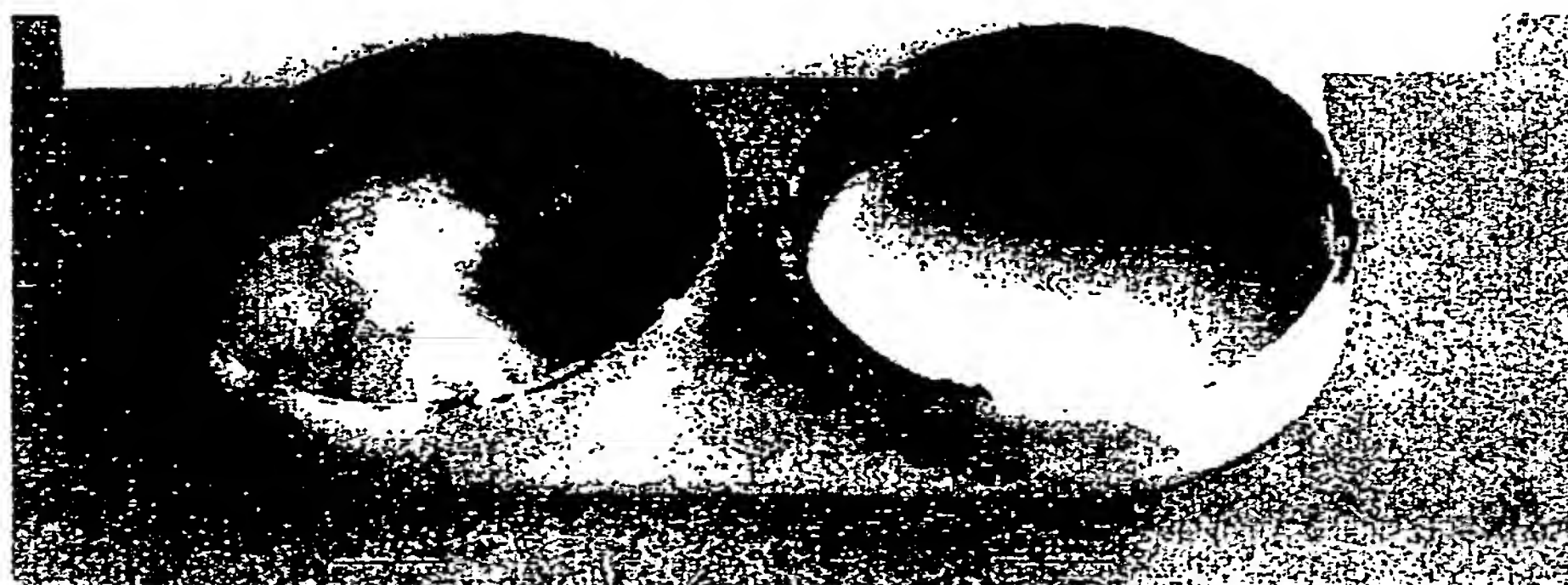
Published:

— with international search report

[Continued on next page]

(54) Title: USE OF PROBIOTIC BACTERIA IN THE TREATMENT OF INFECTION

Cow 1154LF. Milk sampled pre-infusion (left) and post-infusion (right).



Appearance of milk from Cow 1154LF sampled pre- and post-infusion of *Lactococcus lactis* DPC 3147. Samples shown on Day 0 and 7 days post-infusion.

(57) Abstract: The invention relates to the live cultures of probiotic bacteria to treat infectious diseases in humans and animals. Food- grade or non-pathogenic cultures are used to treat localised infections.

BEST AVAILABLE COPY

WO 2005/034970 A1



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.